

ABSTRACT

A bidirectional sorter using an automated guide to selectively divert articles off a transverse roller-top conveyor belt. A sorting station forms a segment of a conveying line conveying articles in a conveying direction. The sorting station includes a transverse roller-top belt having rollers protruding above an outer surface of the belt. The rollers are arranged to rotate about axes in the conveyor direction to provide a low-friction rolling surface to articles being pushed sideways on the belt. A guide suspended above the belt is positionable over the belt at positions to intercept conveyed articles and guide them atop the rollers off one side of the belt or the other. The guide is also movable to a bypass position that allows conveyed articles to pass freely through the sorting station.